

PROCESS FOR THE REMOVAL OF CONTAMINANTS FROM WATER

ABSTRACT

[0065] The present invention provides a method of removing contaminants from water which includes the steps of first providing a water feed exposed to at least one hydrocarbon or chemical process. This water feed is set in-line with a reverse osmosis system which includes an inlet, at least one reverse osmosis membrane, a permeate outlet, and a reject outlet. Then, pressure is applied to the water feed, or where the pressure of the water feed is higher than desired, the pressure is controlled or reduced. The pressure of the water feed serves to force the water feed through the reverse osmosis system. The reverse osmosis system then separates the water feed into a permeate and reject which includes at least one of the contaminants. The permeate is then directed to the permeate outlet and the reject is directed to the reject outlet.